A2500-2

# Paper, Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.69 No.9 SEPTEMBER 1991

## PAPER AND PAPERBOARD PRODUCTION

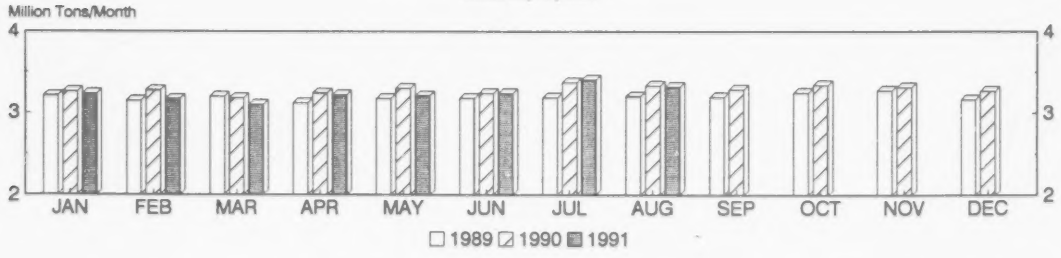
Total paper and paperboard production in August 1991 remained near its record high July rate, keeping the two-month average above 81 million tons per year and the January-August total 0.4% above that of 1990.

As the charts below show, the July-August gains were concentrated in paperboard production, mostly in unbleached kraft linerboard and boxboard for domestic use. Paper output, while sharply above its first half lows, just about matched its year-ago rate. Seasonally adjusted paper production followed last year's pattern and spiked in July as mills shifted shut-downs away from the traditional July period. Production receded in August but remained at a relatively high rate.

The value of shipments from pulp, paper and paperboard mills was 6.9% below its year-ago level in the January-August period, though the volume of shipments was nearly unchanged. The Department of Commerce also reported that aggregate first-half 1991 sales for paper and allied products companies were down by 4.4%, while pre-tax profits fell 45.4% from their comparable 1990 figure (see table at bottom of page 10).

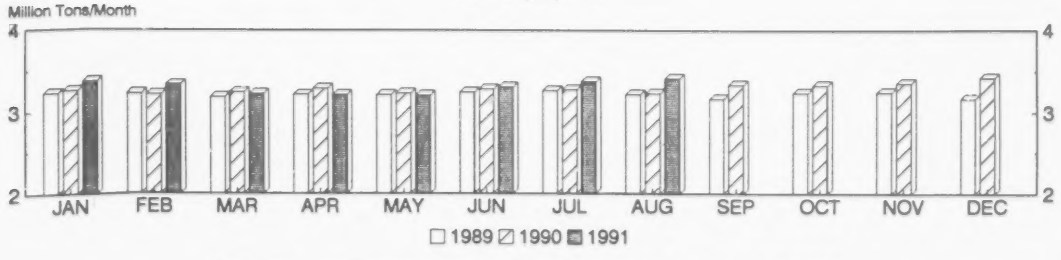
**TOTAL PAPER PRODUCTION**

seasonally adjusted




**TOTAL PAPERBOARD PRODUCTION**

seasonally adjusted

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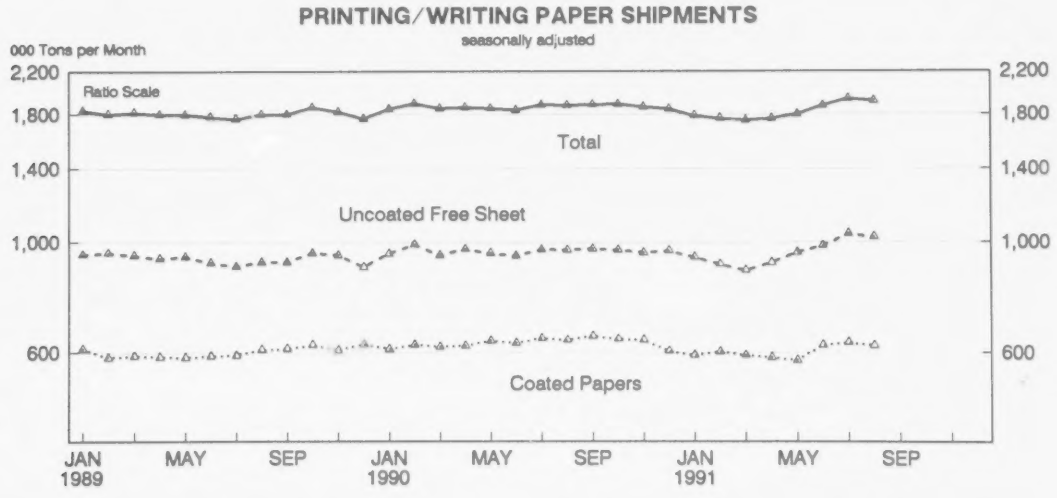
**Paper:** In the face of declining demand for newsprint in the U.S., year-to-date domestic production increased 4.2% from its 1990 total. As the following table shows, domestic shipments have displaced Canadian sources, markedly increasing the U.S. share in each of the last two years.

**Newsprint Consumption and Total North American Shipments to United States**
(000 Tons)

| | 1987 | 1988 | 1989 | 1990 | 1991* |
|---|---|---|---|---|---|
| Consumption | 12,303 | 12,244 | 12,241 | 12,126 | 11,007 |
| N.A. Shipments | 12,099 | 12,022 | 11,781 | 12,003 | 11,221 |
| U.S. Shipments as % of N.A. Shipments | 41.5% | 41.9% | 42.7% | 46.5% | 49.1% |

* 8-month annual rate

Printing-writing paper shipments are down 2.1% compared to 1990. After bottoming out in March, the seasonally adjusted rate of shipments increased 9.4% in the subsequent five months. The July-August annual rate was at a record high of nearly 24 million tons. The chart below shows the trend of total printing-writing papers and those of uncoated free sheet and total coated papers for the January 1989 - August 1991 period.




Much of the recent increase in shipments came out of inventory, with actual production showing only a slight rise. By the end of August, printing-writing paper inventories had fallen 10% from their June peak. Liquidation was reported in all major grades, with uncoated free sheet and coated papers showing the greatest declines.

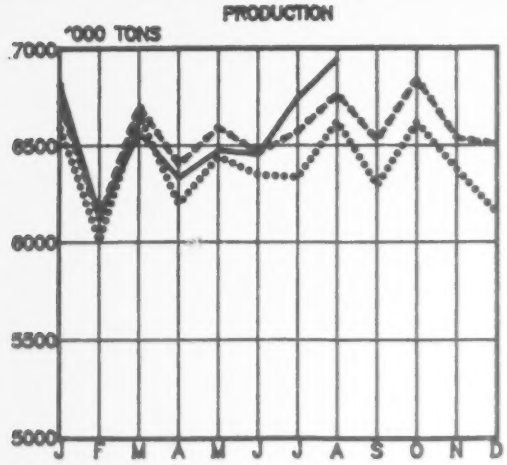
Uncoated free sheet shipments are down 0.7% year-to-date -- but the seasonally adjusted August rate was 16.7% above the March low. Recent support has come from commercial printers, office

| PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons) | YEAR 1989 | YEAR 1990 | MAY 1991 | JUNE 1991 | JULY (R) 1991 | AUGUST (P) 1991 | Annual Rate Y-T-D 1991 | % Change From Same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| PAPER | | | | | | | | |
| Newsprint – Production | 6,088 | 6,610 | 574 | 559 | 586 | 580 | 6,819 | 4.2 |
| – Shipments | 6,079 | 6,621 | 574 | 548 | 568 | 565 | 6,695 | 2.2 |
| Printing & Writing: Total Shipments | 21,626 | 22,371 | 1,793 | 1,778 | 1,960 | 1,991 | 21,900 | -2.1 |
| Groundwood Paper – Shipments | 1,743 | 1,806 | 140 | 145 | 159 | 152 | 1,760 | -1.4 |
| – New Orders | 1,741 | 1,868 | 146 | 178 | 148 | 183 | 1,873 | 1.7 |
| – Unshipped Orders | 193 | 202 | 249 | 274 | 280 | 293 | 293 | 45.0 |
| Coated Groundwood – Shipments | 4,059 | 4,233 | 322 | 343 | 350 | 359 | 4,028 | -3.5 |
| Coated Free Sheet – Shipments | 3,157 | 3,303 | 250 | 253 | 290 | 297 | 3,186 | -4.1 |
| Total Coated Papers – Shipments | 7,215 | 7,536 | 572 | 596 | 640 | 656 | 7,214 | -3.8 |
| – New Orders | 7,171 | 7,430 | 601 | 623 | 646 | 681 | 7,307 | -3.2 |
| – Unshipped Orders | 706 | 732 | 604 | 598 | 638 | 635 | 635 | -13.2 |
| Unctd Free Sheet – Shipments | 11,081 | 11,503 | 957 | 922 | 1,044 | 1,057 | 11,456 | -0.7 |
| – New Orders | 11,097 | 11,479 | 1,002 | 1,013 | 1,131 | 1,078 | 11,554 | -1.4 |
| – Unshipped Orders | 748 | 834 | 554 | 630 | 736 | 742 | 742 | -11.0 |
| Thin Papers – Shipments | 262 | 218 | 16 | 14 | 17 | 17 | 194 | -15.2 |
| Cotton Fiber Paper – Shipments | 161 | 155 | 13 | 12 | 10 | 12 | 146 | -8.4 |
| Bleached Bristols – Shipments | 1,164 | 1,152 | 94 | 89 | 89 | 97 | 1,130 | -2.5 |
| Tissue Paper – Production | 5,636 | 5,802 | 472 | 474 | 440 | 484 | 5,694 | -1.3 |
| Total Packaging & Other Paper | 4,916 | 4,576 | 367 | 369 | 352 | 385 | 4,532 | -0.9 |
| Unbl. Kraft Paper – Shipments | 2,681 | 2,377 | 185 | 195 | 186 | 188 | 2,327 | -3.2 |
| Bl. Kraft Paper – Shipments | 468 | 484 | 33 | 31 | 34 | 39 | 416 | -13.1 |
| Specialty Pkg. Paper – Production | 520 | 563 | 48 | 48 | 47 | 54 | 610 | N.C. |
| Special Industrial Paper – Shipments | 1,248 | 1,153 | 101 | 95 | 84 | 103 | 1,179 | N.C. |
| TOTAL PAPER PRODUCTION – UNADJUSTED | 38,266 | 39,359 | 3,206 | 3,179 | 3,338 | 3,439 | 38,946 | -0.8 |
| TOTAL PAPER PRODUCTION – SEAS ADJ | | | 3,222 | 3,251 | 3,416 | 3,332 | 38,991 | -0.8 |
| PAPERBOARD – PRODUCTION | | | | | | | | |
| Containerboard | 26,428 | 27,388 | 2,276 | 2,262 | 2,411 | 2,460 | 27,693 | 2.0 |
| Cont'bd For Dom Use for Fibre Boxes | 23,752 | 24,432 | 2,015 | 1,954 | 2,114 | 2,134 | 24,201 | 0.4 |
| Total Linerboard | 16,399 | 16,875 | 1,389 | 1,330 | 1,482 | 1,492 | 16,698 | 0.7 |
| Unbleached Kraft | 15,833 | 16,414 | 1,318 | 1,263 | 1,408 | 1,422 | 15,935 | -1.2 |
| Solid Bleached | 178 | 139 | 12 | 12 | 13 | 11 | 143 | 3.8 |
| Recycled | 388 | 323 | 59 | 55 | 62 | 59 | 620 | 101.0 |
| Corrugating Medium | 7,339 | 7,549 | 624 | 621 | 630 | 640 | 7,483 | -0.5 |
| Semichemical | 5,554 | 5,567 | 456 | 452 | 466 | 466 | 5,497 | -1.0 |
| Recycled | 1,785 | 1,982 | 167 | 169 | 164 | 174 | 1,986 | 1.0 |
| Container Chip and Filler | 14 | 7 | 2 | 3 | 1 | 1 | 20 | 142.6 |
| Other Containerboard for Dom Use | 307 | 282 | 22 | 31 | 24 | 30 | 300 | 3.4 |
| Containerboard for Export | 2,369 | 2,674 | 239 | 277 | 274 | 297 | 3,193 | 16.2 |
| Boxboard | 12,092 | 12,035 | 1,004 | 1,024 | 1,008 | 1,062 | 12,215 | 0.6 |
| Boxboard for Packaging for Dom Use | 7,076 | 6,949 | 600 | 626 | 612 | 639 | 7,408 | 6.3 |
| Folding Boxboard | 5,370 | 5,198 | 455 | 478 | 466 | 493 | 5,634 | 9.2 |
| Solid Bleached | 1,980 | 1,818 | 166 | 164 | 174 | 170 | 1,972 | 7.1 |
| Unbleached Kraft | 987 | 970 | 87 | 102 | 102 | 113 | 1,161 | 24.5 |
| Recycled | 2,403 | 2,410 | 202 | 212 | 190 | 210 | 2,501 | 5.0 |
| Set-up Boxboard for Dom Use | 288 | 290 | 23 | 25 | 21 | 25 | 273 | -10.6 |
| Milk Carton & Food Service Dom Use | 1,419 | 1,461 | 123 | 123 | 126 | 121 | 1,501 | -0.4 |
| Other Boxboard for Domestic Use | 4,152 | 4,145 | 308 | 316 | 306 | 341 | 3,755 | -11.0 |
| Boxboard for Export | 863 | 941 | 97 | 82 | 89 | 82 | 1,052 | 9.8 |
| Paperboard Production by Furnish | 38,519 | 39,423 | 3,280 | 3,285 | 3,419 | 3,522 | 39,908 | 1.6 |
| Unbleached Kraft | 19,490 | 20,357 | 1,671 | 1,676 | 1,813 | 1,864 | 20,651 | 2.6 |
| Semichemical | 5,691 | 5,710 | 472 | 467 | 481 | 477 | 5,670 | -0.6 |
| Solid Bleached Kraft | 4,521 | 4,399 | 393 | 380 | 394 | 389 | 4,617 | 3.3 |
| Recycled | 8,817 | 8,956 | 744 | 763 | 731 | 792 | 8,970 | -0.3 |
| Paperboard Production for Export | 3,232 | 3,615 | 335 | 359 | 363 | 379 | 4,244 | 14.6 |
| Unbleached Kraft | 2,363 | 2,691 | 245 | 280 | 279 | 299 | 3,255 | 17.7 |
| Semichemical | 138 | 142 | 16 | 14 | 15 | 11 | 173 | 14.5 |
| Bleached Kraft | 693 | 732 | 71 | 57 | 62 | 63 | 755 | 2.3 |
| Recycled | 38 | 49 | 4 | 7 | 7 | 5 | 60 | 24.4 |
| TOTAL PAPERBOARD PRODUCTION – UNADJ | 38,519 | 39,423 | 3,280 | 3,285 | 3,419 | 3,522 | 39,908 | 1.6 |
| TOTAL PAPERBOARD PROD – SEAS ADJ | | | 3,200 | 3,309 | 3,372 | 3,413 | 39,649 | 1.6 |
| PAPER AND PAPERBOARD – UNADJ | 76,785 | 78,782 | 6,486 | 6,465 | 6,757 | 6,961 | 78,854 | 0.4 |
| PAPER AND PAPERBOARD – SEAS ADJ | | | 6,422 | 6,560 | 6,788 | 6,745 | 78,640 | 0.4 |

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted N.C. – 1991 and 1990 data under review

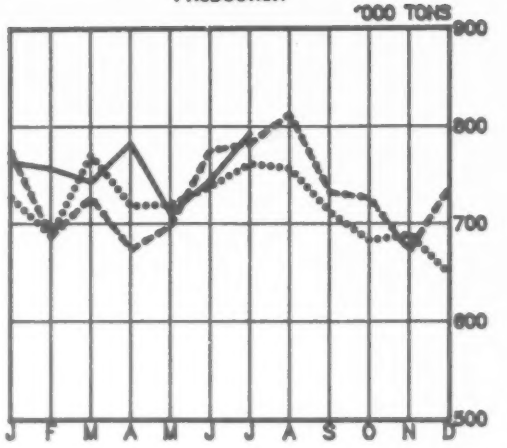
## TOTAL PAPER AND PAPERBOARD

PRODUCTION



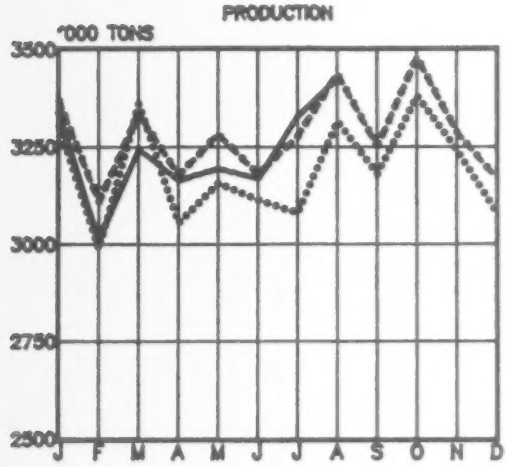

## MARKET WOOD PULP

PRODUCTION



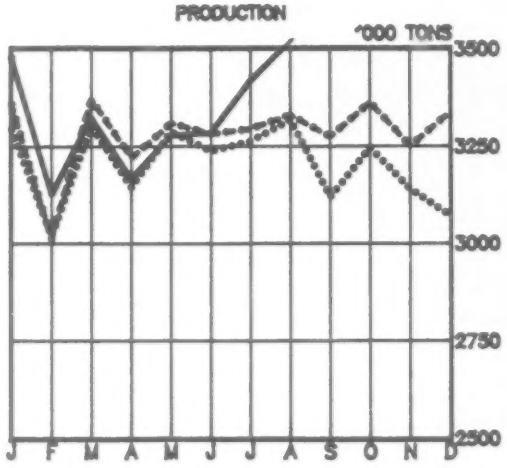

## TOTAL PAPER

PRODUCTION



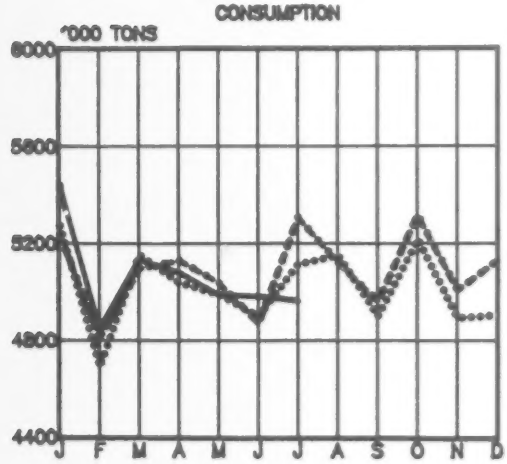

## TOTAL PAPERBOARD

PRODUCTION



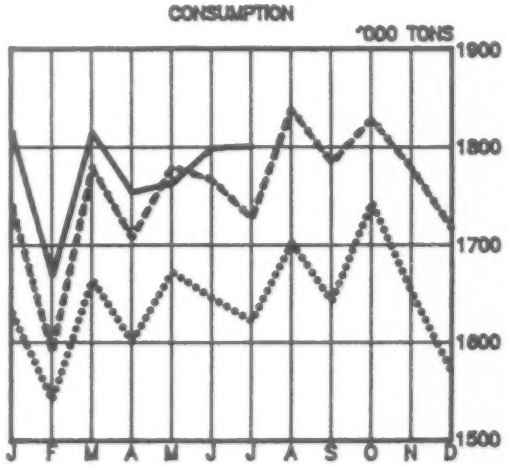

## TOTAL WOOD PULP

CONSUMPTION




## TOTAL WASTE PAPER

CONSUMPTION




1989 ..... 1990 - - - - - 1991 ———

| WOOD PULP STATISTICS (Thousands of Tons) | | | YEAR 1989 | YEAR 1990 | APR 1991 | MAY 1991 | JUN (R) 1991 | JUL (P) 1991 | Annual Rate Y-T-D 1991 | % Change From Same Period Last Year |
|---|---|---|---|---|---|---|---|---|---|---|
| TOTAL WOOD PULP | | | | | | | | | | |
| Total Wood Pulp | Production | | 61,998 | 63,068 | 5,285 | 5,188 | 5,197 | 5,631 | 63,826 | 1.8 |
| | Imports | A | 5,005 | 4,893 | 415 | 382 | 414 | 422 | 4,948 | -2.0 |
| | Exports | # | 5,766 | 5,905 | 528 | 576 | 573 | 497 | 6,402 | 9.2 |
| | New Supply | | 61,237 | 62,056 | 5,172 | 4,995 | 5,038 | 5,556 | 62,372 | 0.7 |
| Dissolving Pulp | Production | | 1,425 | 1,293 | 115 | 92 | 124 | 130 | 1,378 | 6.1 |
| | Imports | | 284 | 222 | 18 | 16 | 17 | 18 | 179 | -21.7 |
| | Exports | # | 798 | 782 | 50 | 71 | 84 | 68 | 788 | 0.4 |
| | New Supply | | 912 | 733 | 83 | 37 | 57 | 80 | 769 | 3.6 |
| Paper Grades | Production | | 50,181 | 51,192 | 4,270 | 4,232 | 4,222 | 4,609 | 51,893 | 1.9 |
| Chemical Pulp | Imports | A | 4,370 | 4,326 | 370 | 330 | 368 | 377 | 4,425 | -0.8 |
| | Exports | # | 4,913 | 5,080 | 475 | 498 | 482 | 425 | 5,563 | 10.7 |
| | New Supply | | 49,639 | 50,438 | 4,164 | 4,065 | 4,109 | 4,560 | 50,755 | 0.8 |
| Groundwood and | Production | | 6,029 | 6,363 | 555 | 528 | 520 | 545 | 6,447 | 3.3 |
| Thermo-Mech | Imports | A | 351 | 345 | 27 | 35 | 28 | 27 | 344 | -5.0 |
| | Exports | # | 55 | 44 | 3 | 6 | 7 | 4 | 51 | -0.6 |
| | New Supply | | 6,324 | 6,665 | 579 | 558 | 541 | 568 | 6,740 | 2.9 |
| Semi-Chemical | Production | | 4,363 | 4,219 | 346 | 335 | 331 | 347 | 4,109 | -3.9 |
| | Imports | | | | | | | | | |
| | Exports | | | | | | | | | |
| | New Supply | | 4,363 | 4,219 | 346 | 335 | 331 | 347 | 4,109 | -3.9 |
| MARKET WOOD PULP | | | | | | | | | | |
| Total Market | Production | | 8,664 | 8,798 | 783 | 710 | 745 | 793 | 9,076 | 3.5 |
| Wood Pulp | Imports | | 3,539 | 3,215 | 283 | 235 | 242 | 272 | 3,069 | -7.2 |
| | Exports | | 5,309 | 5,561 | 479 | 490 | 548 | 483 | 5,955 | 10.9 |
| | New Supply | | 6,893 | 6,451 | 587 | 455 | 439 | 583 | 6,191 | -7.7 |
| Dissolving Pulp | Production | | 1,422 | 1,292 | 115 | 92 | 124 | 129 | 1,375 | 6.0 |
| | Imports | | 210 | 170 | 18 | 16 | 18 | 18 | 167 | -0.8 |
| | Exports | | 821 | 782 | 51 | 78 | 89 | 62 | 813 | 3.7 |
| | New Supply | | 810 | 679 | 82 | 30 | 53 | 85 | 729 | 7.0 |
| Paper Grades | Production | | 7,242 | 7,506 | 669 | 618 | 621 | 663 | 7,701 | 3.0 |
| Chemical Pulp | Imports | | 3,072 | 2,813 | 246 | 200 | 208 | 234 | 2,682 | -7.4 |
| | Exports | | 4,489 | 4,779 | 428 | 413 | 459 | 421 | 5,142 | 12.1 |
| | New Supply | | 5,825 | 5,540 | 487 | 405 | 371 | 476 | 5,241 | -9.4 |
| Groundwood Pulp | Production | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N.M. |
| and All Other | Imports | | 258 | 232 | 19 | 20 | 15 | 21 | 221 | -10.2 |
| | Exports | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N.M. |
| | New Supply | | 258 | 232 | 19 | 20 | 15 | 21 | 221 | -10.2 |

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

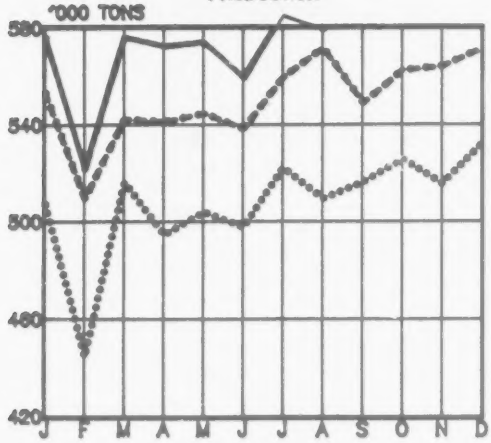
NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data. N.M. - Not Meaningful. # - 1989 Exports revised by API.

| FIBROUS RAW MATERIALS (Thousands of tons) | YEAR 1989 | YEAR 1990 | APR 1991 | MAY 1991 | JUN (R) 1991 | JUL (P) 1991 | Annual Rate 1991 | % Change From Same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| CONSUMPTION AT PAPER & PAPERBOARD MILLS | | | | | | | | |
| Total | 79,742 | 82,072 | 6,834 | 6,751 | 6,781 | 7,165 | 82,707 | 1.4 |
| Total Wood Pulp | 60,252 | 61,032 | 5,080 | 4,988 | 4,982 | 5,363 | 61,420 | 0.9 |
| Waste Paper | 19,490 | 21,040 | 1,754 | 1,763 | 1,799 | 1,801 | 21,287 | 2.7 |
| INVENTORIES | | | | | | | | |
| Chemical Paper Grade Market Pulp | | | | | | | | |
| Producers' Own-Use Inventories | 193 | 226 | 198 | 210 | 214 | 218 | 218 | 4.4 |
| Producers' Market Inventories | 342 | 476 | 521 | 532 | 515 | 596 | 596 | 12.9 |
| Consumers' Purchased Inventories # | 519 | 392 | 394 | 389 | 351 | 353 | 353 | -18.4 |
| Waste Paper at Paper & Bd. Mills | 1,082 | 909 | 960 | 1,025 | 1,001 | 1,024 | 1,024 | -1.2 |
| Days of Supply at Pulp Mills of | | | | | | | | |
| Chemical Paper Grade Mkt Pulp | 19 | 23 | 24 | 25 | 25 | 30 | 30 | 15.4 |

SOURCES: Wood Pulp Data: Pulp Division, Pulp, Materials and Technology Group, API. Wood Pulp Consumption, 1989: Bureau of the Census.
Waste Paper Data: Paper Recycling Committee, API. # Includes all grades of wood pulp
P - Preliminary; R - Revised; 0 - Indicates zero to five-hundred short tons

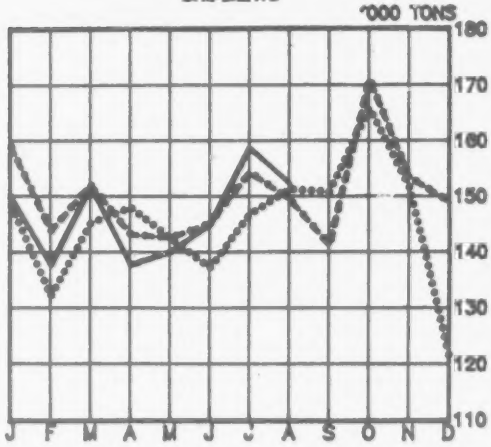
NEWSPRINT

PRODUCTION



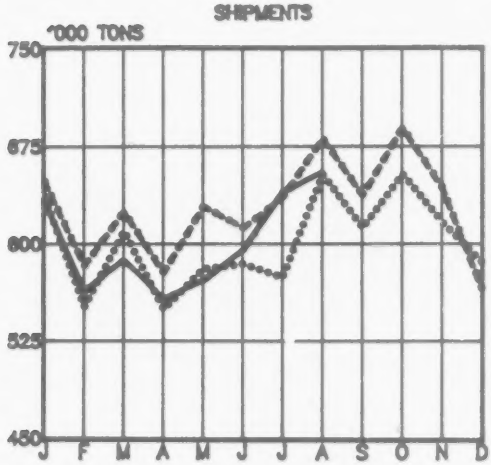

GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



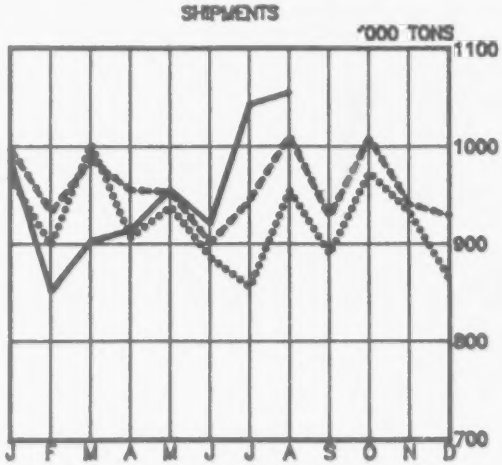

COATED PAPER

SHIPMENTS



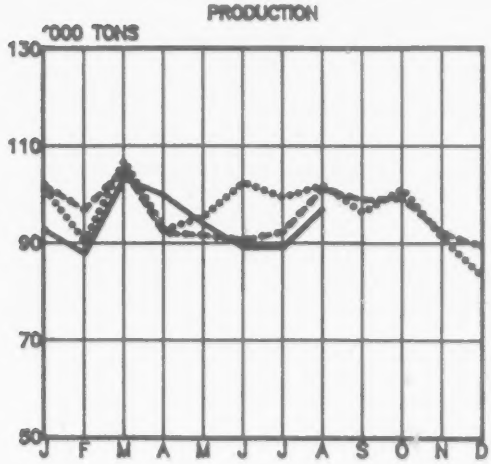

UNCOATED FREE SHEET PAPERS

SHIPMENTS



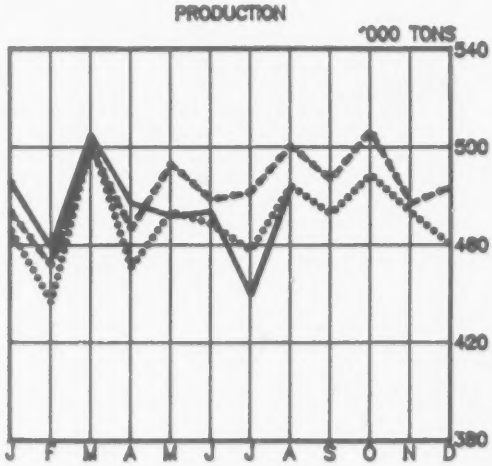

BLEACHED BRISTOLS

PRODUCTION




TISSUE PAPER

PRODUCTION




1989 ••••••• 1990 -•-•-•-1991 ——

| FIBROUS RAW MATERIALS Thousands of Standard (128 Cu. ft.) Cords | YEAR 1989 | YEAR 1990 | APRIL 1991 | MAY 1991 | JUNE 1991 | JULY 1991 | ANNUAL RATE Y-T-D 1991 | % CHANGE FROM SAME PD LAST YEAR |
|---|---|---|---|---|---|---|---|---|
| PULPWOOD | | | | | | | | |
| Total U.S. – Total Receipts | 99,279 | 99,304 | 8,097 | 7,934 | 8,120 | 8,385 | 98,823 | -0.2 |
| – Total Consumption | 98,414 | 99,109 | 8,271 | 8,108 | 7,992 | 8,239 | 98,892 | -0.3 |
| – Residues * | 34,539 | 35,727 | 2,937 | 2,858 | 2,823 | 2,881 | 34,459 | -3.5 |
| – Inventories | 5,462 | 5,961 | 5,082 | 4,936 | 4,880 | 4,948 | 4,948 | -3.1 |
| So. Atlantic – Total Receipts | 31,982 | 32,536 | 2,658 | 2,477 | 2,536 | 2,692 | 31,378 | -4.2 |
| – Total Consumption | 32,239 | 32,412 | 2,697 | 2,586 | 2,577 | 2,769 | 32,223 | -1.0 |
| – Residues * | 9,961 | 11,181 | 876 | 803 | 835 | 889 | 10,467 | -5.9 |
| – Inventories | 936 | 1,334 | 1,183 | 1,117 | 1,076 | 1,025 | 1,025 | -5.9 |
| Northeast – Total Receipts | 7,242 | 7,264 | 578 | 533 | 584 | 602 | 7,335 | 2.1 |
| – Total Consumption | 7,072 | 7,080 | 582 | 561 | 555 | 549 | 6,907 | -4.9 |
| – Residues * | 1,575 | 1,505 | 139 | 129 | 133 | 137 | 1,661 | 11.4 |
| – Inventories | 522 | 449 | 465 | 395 | 359 | 351 | 351 | -5.4 |
| South Central – Total Receipts | 35,840 | 37,246 | 3,135 | 3,140 | 3,222 | 3,279 | 38,527 | 5.4 |
| – Total Consumption | 35,791 | 36,784 | 3,109 | 3,208 | 3,153 | 3,145 | 38,182 | 5.1 |
| – Residues * | 10,539 | 11,516 | 1,019 | 1,021 | 978 | 959 | 11,866 | 3.6 |
| – Inventories | 1,336 | 1,879 | 1,432 | 1,233 | 1,187 | 1,203 | 1,203 | -1.9 |
| North Central – Total Receipts | 7,020 | 7,074 | 464 | 548 | 581 | 596 | 7,239 | 2.7 |
| – Total Consumption | 6,963 | 7,129 | 642 | 628 | 598 | 601 | 7,402 | 3.5 |
| – Residues * | 1,422 | 1,308 | 105 | 111 | 98 | 102 | 1,217 | -7.6 |
| – Inventories | 938 | 1,014 | 1,029 | 942 | 920 | 992 | 992 | 11.6 |
| West – Total Receipts | 17,196 | 15,184 | 1,282 | 1,236 | 1,197 | 1,214 | 14,343 | -7.4 |
| – Total Consumption | 18,349 | 15,704 | 1,241 | 1,125 | 1,109 | 1,175 | 14,177 | -11.2 |
| – Residues * | 11,042 | 10,217 | 798 | 794 | 779 | 794 | 9,249 | -10.3 |
| – Inventories | 1,730 | 1,285 | 973 | 1,249 | 1,338 | 1,377 | 1,377 | -10.1 |

SOURCE: American Pulpwood Association

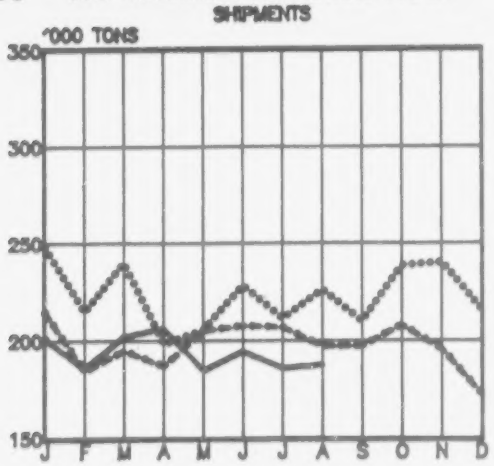
* – Consumption of Residues in cords equivalent

| UNITED STATES TRADE WITH CANADA | IMPORTS FROM CANADA YEAR 1990 Tons | YEAR 1990 ($000) | JUNE 1991 Tons | JUNE 1991 ($000) | JULY 1991 Tons | JULY 1991 ($000) | ANNUAL RATE Y-T-D 1991 Tons | % CHANGE FROM SAME PD LAST YEAR |
|---|---|---|---|---|---|---|---|---|
| Pulpwood, Roundwood (in cubic meters) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Pulpwood chips | 709,197 | 22,413 | 58,764 | 2,228 | 52,849 | 2,136 | 697,346 | -2.5 |
| Wood Pulp, Total | 4,322,418 | 2,514,301 | 365,416 | 180,094 | 351,525 | 145,293 | 4,279,354 | -4.7 |
| Waste Fibrous Materials, Total | 130,452 | 31,442 | 10,021 | 1,919 | 8,900 | 1,708 | 129,172 | -9.3 |
| Paper, Board & Products, Total | 11,191,700 | 6,317,590 | 869,511 | 505,164 | 855,576 | 493,031 | 10,563,033 | -7.7 |
| Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd. | 11,047,032 | 5,968,425 | 856,665 | 472,241 | 841,251 | 456,530 | 10,402,607 | -7.8 |
| Paper, Paperboard & Products | 11,066,239 | 6,284,416 | 861,268 | 502,927 | 847,553 | 490,851 | 10,478,171 | -7.4 |
| Paper & Paperboard, Only | 10,921,571 | 5,935,260 | 848,421 | 470,004 | 833,228 | 454,350 | 10,325,745 | -7.5 |
| Paper, Total | 10,385,505 | 5,723,101 | 796,179 | 449,185 | 771,704 | 430,980 | 9,753,375 | -8.6 |
| Newsprint | 8,118,161 | 4,162,493 | 603,162 | 321,148 | 580,224 | 307,405 | 7,556,923 | -10.6 |
| Printing, Writing & Rel. Pap. | 1,914,083 | 1,295,073 | 166,785 | 108,603 | 164,440 | 102,424 | 1,888,893 | 0.7 |
| Pack. & Ind. Conv. Paper | 211,903 | 121,069 | 15,824 | 9,447 | 19,263 | 11,570 | 208,417 | 0.2 |
| Special Industrial Paper | 57,441 | 88,444 | 3,568 | 5,376 | 4,039 | 5,968 | 42,565 | -31.5 |
| Tissue Paper | 83,917 | 76,023 | 4,842 | 4,390 | 3,738 | 3,612 | 56,577 | -28.0 |
| Paperboard, Total | 536,067 | 212,149 | 52,243 | 20,839 | 61,524 | 23,370 | 572,371 | 16.3 |
| Convtd Paper&Paperbd Products | 144,668 | 349,166 | 12,846 | 32,923 | 14,325 | 36,501 | 150,426 | -0.3 |
| Wet Machine Board | 884 | 757 | 27 | 26 | 89 | 82 | 705 | -23.3 |
| Construction Paper & Board | 124,576 | 32,418 | 8,217 | 2,211 | 7,934 | 2,096 | 76,156 | -32.7 |

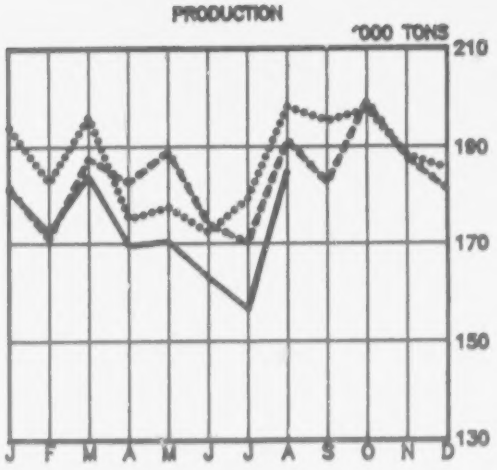
| EXPORTS TO CANADA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pulpwood, Roundwood (in cubic meters) | 1,038,727 | 36,801 | 146,497 | 4,856 | 188,981 | 5,941 | 1,946,364 | 210.1 |
| Pulpwood chips | 193,841 | 9,066 | 28,094 | 1,321 | 19,809 | 1,008 | 258,339 | 48.2 |
| Wood Pulp, Total | 328,456 | 165,508 | 22,189 | 11,302 | 16,703 | 8,638 | 267,240 | -29.2 |
| Cotton Pulp & Other Pulp | 4,373 | 4,284 | 389 | 324 | 295 | 259 | 4,558 | -4.3 |
| Waste Paper | 653,204 | 116,346 | 47,470 | 8,213 | 54,157 | 8,302 | 592,873 | -9.9 |
| Paper, Board & Products, Total | 1,194,633 | 1,317,384 | 120,951 | 127,931 | 122,734 | 127,617 | 1,398,642 | 17.0 |
| Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd. | 893,102 | 820,279 | 89,320 | 79,670 | 92,154 | 79,036 | 1,049,249 | 17.3 |
| Paper, Paperboard & Products | 1,192,443 | 1,315,896 | 120,064 | 127,348 | 121,892 | 127,189 | 1,389,764 | 16.7 |
| Paper & Paperboard, Only | 890,912 | 818,590 | 88,443 | 79,086 | 91,312 | 78,607 | 1,042,371 | 16.8 |
| Paper, Total | 521,586 | 595,952 | 53,296 | 57,586 | 54,149 | 57,169 | 643,985 | 25.6 |
| Newsprint | 20,813 | 11,389 | 3,079 | 1,758 | 1,994 | 1,156 | 30,049 | 60.6 |
| Printing, Writing & Rel. Pap. | 372,852 | 424,207 | 37,051 | 39,943 | 39,394 | 41,438 | 454,949 | 21.3 |
| Pack. & Ind. Conv. Paper | 52,387 | 36,780 | 4,975 | 3,770 | 5,817 | 3,914 | 63,139 | 28.8 |
| Special Industrial Paper | 59,301 | 106,279 | 5,522 | 9,501 | 4,633 | 8,229 | 60,877 | 6.3 |
| Tissue Paper | 16,253 | 17,297 | 2,670 | 2,614 | 2,511 | 2,433 | 34,971 | 165.8 |
| Paperboard, Total | 369,326 | 222,638 | 35,147 | 21,500 | 37,163 | 21,436 | 398,385 | 5.0 |
| Convtd Paper&Paperbd Products | 301,531 | 497,106 | 31,621 | 48,261 | 30,580 | 48,582 | 347,393 | 16.3 |
| Wet Machine Board | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N.M. |
| Construction Paper & Board | 2,190 | 1,669 | 887 | 584 | 842 | 428 | 6,878 | 221.4 |

SOURCE: Bureau of Census, Department of Commerce

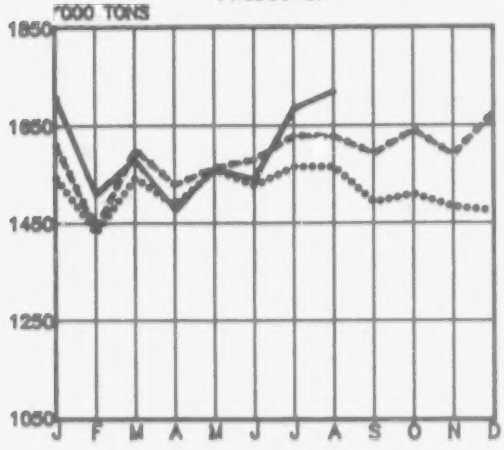
## UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER SHIPMENTS



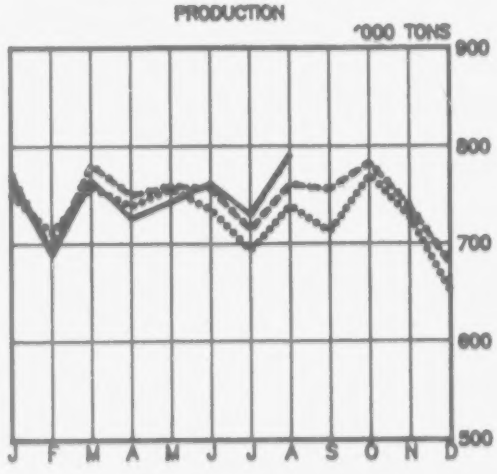

## OTHER PAPER PRODUCTION



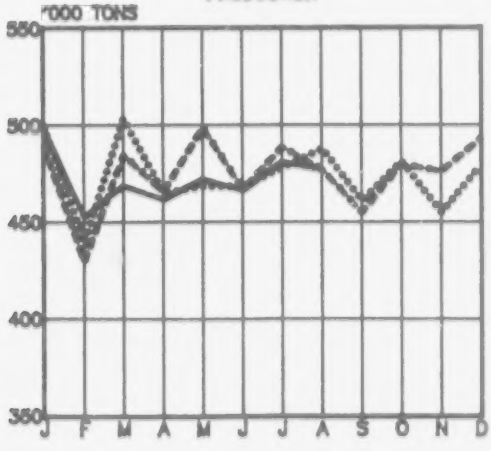

## UNBLEACHED KRAFT LINERBOARD PRODUCTION



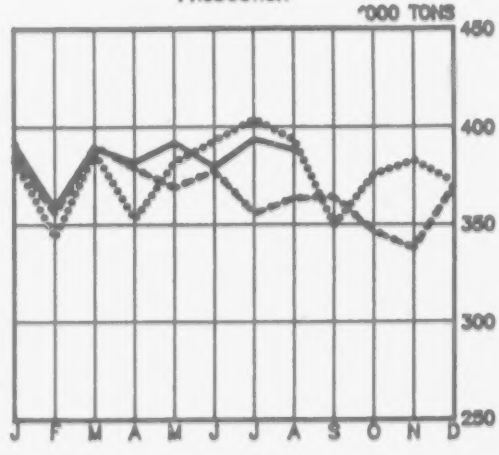

## RECYCLED PAPERBOARD PRODUCTION




## SEMICHEMICAL PAPERBOARD PRODUCTION




## SOLID BLEACHED PAPERBOARD PRODUCTION




1989 ..... 1990 ----- 1991 ———

| PULP, PAPER AND PAPERBOARD IMPORTS | YEAR 1990 | | JUNE 1991 | | JULY 1991 | | Annual Rate YTD 1991 | % Change from same Period |
|---|---|---|---|---|---|---|---|---|
| | Tons | $000 | Tons | $000 | Tons | $000 | Tons (1) | Last Year |
| Pulpwood Roundwood (cubic meters) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Pulpwood Chips | 710,415 | 22,560 | 58,764 | 2,228 | 52,851 | 2,143 | 697,824 | -2.6 |
| Total All Imports | 18,177,409 | 11,292,256 | 1,400,845 | 826,980 | 1,392,263 | 812,564 | 17,218,764 | -7.2 |
| Wood Pulp Total | 4,893,355 | 2,831,327 | 413,610 | 191,748 | 422,078 | 175,723 | 4,947,996 | -2.0 |
| Waste Paper | 122,539 | 26,349 | 10,027 | 1,905 | 8,909 | 1,711 | 131,167 | -1.5 |
| Other Fibrous Materials | 14,037 | 9,266 | 809 | 850 | 799 | 784 | 8,902 | -43.3 |
| Paper Board & Products Total | 13,147,479 | 8,425,263 | 976,400 | 642,480 | 960,479 | 634,848 | 12,130,969 | -9.2 |
| Paper Paperboard Wet Machine Bd. & Construction Paper & Board | 12,728,760 | 7,425,583 | 944,884 | 557,153 | 925,215 | 539,844 | 11,736,275 | -9.3 |
| Paper Ppbd & Prds ex Cnst&WMB | 13,006,236 | 8,382,641 | 967,216 | 639,528 | 950,845 | 631,364 | 12,042,846 | -9.0 |
| Paper & Paperboard Only | 12,567,519 | 7,382,931 | 935,701 | 554,191 | 915,581 | 536,562 | 11,846,932 | -9.1 |
| Paper Total | 11,961,306 | 7,077,036 | 876,350 | 520,668 | 848,520 | 507,999 | 10,998,996 | -10.0 |
| Newsprint | 8,299,557 | 4,247,131 | 611,709 | 325,027 | 585,462 | 309,531 | 7,677,428 | -11.3 |
| Printing & Writing | 3,104,883 | 2,248,424 | 228,937 | 161,101 | 217,064 | 149,971 | 2,844,001 | -6.0 |
| Uncoated Groundwood | 1,337,581 | 843,560 | 101,811 | 64,809 | 96,274 | 60,344 | 1,301,813 | 0.2 |
| Coated Print & Impreg. Pap. | 936,048 | 749,082 | 66,815 | 52,286 | 56,235 | 45,129 | 820,523 | -13.9 |
| Uncoated Free Sheet | 752,448 | 564,479 | 53,102 | 34,424 | 56,654 | 35,299 | 830,038 | -9.2 |
| Thin (except Cigarette) | 11,395 | 14,296 | 731 | 918 | 1,369 | 1,527 | 14,995 | 41.6 |
| Bristols | 67,424 | 77,017 | 7,479 | 8,664 | 6,533 | 7,573 | 76,932 | 13.6 |
| Total Pkg & Other Paper | 425,897 | 462,237 | 30,072 | 35,493 | 41,169 | 43,960 | 389,471 | -7.1 |
| Unbleached Kraft Paper | 235,352 | 116,855 | 16,449 | 8,084 | 24,069 | 11,362 | 228,963 | -2.3 |
| Other Pkg. & Indust. Paper | 190,346 | 345,582 | 13,623 | 27,409 | 17,079 | 32,597 | 170,808 | -12.9 |
| Tissue | 131,189 | 119,244 | 5,531 | 5,067 | 4,825 | 4,537 | 78,098 | -34.4 |
| Paperboard, Total | 629,213 | 305,895 | 61,351 | 27,503 | 67,061 | 28,564 | 647,933 | 10.0 |
| Test or Containerboard | 113,629 | 48,929 | 11,276 | 4,234 | 12,955 | 4,817 | 106,187 | -16.7 |
| Semi-Chemical Corrugating | 111,935 | 31,152 | 6,197 | 1,435 | 7,279 | 1,744 | 70,833 | -33.4 |
| Other Paperboard | 400,649 | 227,160 | 41,878 | 21,833 | 46,827 | 22,202 | 470,914 | 32.5 |
| Convid Paper&Paperbd Products | 418,719 | 999,710 | 31,516 | 85,337 | 35,264 | 94,802 | 396,715 | -6.5 |
| Papar Products, Total | 313,106 | 807,967 | 23,667 | 69,068 | 25,616 | 75,528 | 295,928 | -7.5 |
| Paperboard Products, Total | 105,613 | 191,744 | 7,849 | 16,269 | 9,648 | 19,273 | 99,787 | -3.5 |
| Wet machine Board | 1,132 | 861 | 45 | 46 | 63 | 88 | 896 | -24.8 |
| Construction Paper & Board E | 140,110 | 41,861 | 9,139 | 2,914 | 9,542 | 3,194 | 87,447 | -31.0 |
| Notes | | | | | | | | |
| Other: No Weight Avail. ($000) | | 138,809 | | 12,727 | | 13,979 | 126,504 | -0.6 |
| Total Imports Incl. Other($000) | | 11,429,064 | | 839,717 | | 826,842 | 10,433,881 | -10.2 |

| PULP, PAPER AND PAPERBOARD EXPORTS | YEAR 1990 | | JUNE 1991 | | JULY 1991 | | Annual Rate YTD 1991 | % Change from same Period |
|---|---|---|---|---|---|---|---|---|
| | Tons | $000 | Tons | $000 | Tons | $000 | Tons (1) | Last Year |
| Pulpwood, Roundwood (cubic meters) | 1,122,468 | 39,971 | 151,352 | 4,924 | 169,734 | 5,951 | 1,977,849 | 170.4 |
| Pulpwood Chips | 4,637,689 | 412,018 | 406,452 | 35,599 | 465,795 | 45,834 | 5,171,861 | 19.1 |
| Total All Exports | 19,342,224 | 9,075,342 | 1,629,994 | 846,959 | 1,664,799 | 758,656 | 21,388,895 | 11.7 |
| Wood Pulp,Total | 5,905,339 | 3,165,871 | 572,548 | 282,907 | 498,870 | 219,094 | 6,401,575 | 8.2 |
| Cotton Pulp and Other Pulp | 135,632 | 104,906 | 6,464 | 6,245 | 5,873 | 4,569 | 99,795 | -29.4 |
| Waste and Old Paper | 6,504,895 | 779,667 | 515,923 | 99,937 | 500,483 | 52,892 | 6,661,377 | 4.8 |
| Paper, Board & Products,Total | 6,796,388 | 5,035,177 | 735,082 | 517,871 | 661,574 | 482,101 | 8,226,149 | 21.1 |
| Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board | 6,748,620 | 3,449,743 | 625,448 | 353,618 | 564,839 | 323,470 | 6,946,505 | 20.4 |
| Paper, Ppbd & Prod ex Cnst&WMB | 6,786,618 | 5,028,883 | 733,008 | 516,544 | 659,527 | 481,097 | 8,203,483 | 20.9 |
| Paper & Paperboard, Only | 6,738,760 | 3,443,249 | 623,392 | 352,292 | 552,793 | 322,466 | 6,923,819 | 20.2 |
| Paper, Total | 1,519,052 | 1,455,104 | 184,208 | 161,210 | 164,808 | 142,075 | 1,947,182 | 32.3 |
| Newsprint | 535,993 | 293,182 | 64,594 | 33,143 | 47,670 | 23,308 | 635,152 | 26.1 |
| Printing & Writing | 984,824 | 717,700 | 85,354 | 77,894 | 84,960 | 79,048 | 919,881 | 38.6 |
| Uncoated Groundwood | 75,299 | 53,974 | 15,228 | 9,615 | 9,760 | 7,032 | 126,588 | 73.2 |
| Clay Coated Paper | 218,684 | 215,289 | 22,575 | 19,856 | 27,100 | 23,357 | 298,107 | 25.2 |
| Uncoated Free Sheet | 232,369 | 306,127 | 28,432 | 33,747 | 34,196 | 34,914 | 350,467 | 60.1 |
| Other Printing & Writing | 138,472 | 132,709 | 19,119 | 14,474 | 13,924 | 13,745 | 176,518 | 22.0 |
| Total Pkg. & Other Paper | 233,584 | 403,949 | 29,547 | 35,404 | 28,151 | 35,295 | 334,369 | 22.1 |
| Unbleached Kraft | 112,828 | 60,480 | 12,292 | 6,261 | 10,893 | 5,569 | 135,121 | 21.9 |
| Other Pkg. & Indust. Paper | 170,756 | 343,469 | 17,255 | 29,143 | 17,458 | 29,727 | 199,248 | 22.2 |
| Tissue | 34,651 | 40,273 | 4,712 | 4,969 | 4,007 | 4,423 | 57,989 | 67.5 |
| Paperboard, Total | 4,219,698 | 1,988,144 | 439,196 | 201,062 | 367,985 | 180,391 | 4,976,627 | 16.1 |
| Solid Wood Pulp | 3,993,101 | 1,867,502 | 420,270 | 188,446 | 367,196 | 168,255 | 4,750,584 | 17.7 |
| Total Linerboard | 2,924,140 | 1,078,705 | 296,867 | 104,123 | 257,527 | 90,236 | 3,420,196 | 16.3 |
| Bleached Kraft Linerboard | 335,444 | 150,819 | 28,445 | 12,240 | 33,304 | 13,231 | 382,752 | 37.3 |
| Unbleached Kraft Linerbd | 2,588,697 | 925,886 | 270,423 | 91,883 | 224,223 | 77,005 | 3,037,444 | 13.0 |
| Other Unbleached Kraft | 253,945 | 144,169 | 35,807 | 20,169 | 27,632 | 15,742 | 394,327 | 47.4 |
| Other Bleached Kraft | 784,550 | 628,859 | 78,005 | 61,758 | 73,234 | 59,701 | 855,114 | 12.9 |
| Semi-Chemical Corrugating | 50,466 | 17,769 | 7,791 | 2,396 | 8,803 | 2,576 | 80,947 | 76.3 |
| Recycled Paperboard | 226,596 | 120,843 | 18,916 | 12,636 | 20,790 | 12,136 | 226,043 | -0.3 |
| Convid Paper&Paperbd Products | 1,047,788 | 1,585,435 | 109,614 | 164,252 | 108,735 | 158,631 | 1,279,644 | 24.6 |
| Paper Products, Total | 440,793 | 1,012,642 | 62,712 | 112,195 | 48,361 | 103,903 | 578,258 | 37.9 |
| Paperboard Products, Total | 606,975 | 572,793 | 56,901 | 52,057 | 58,373 | 54,728 | 701,386 | 15.4 |
| Wet Machine Board | 487 | 232 | 52 | 20 | 24 | 12 | 280 | -42.7 |
| Construction Paper & Board E | 9,394 | 6,292 | 2,004 | 1,307 | 2,022 | 982 | 22,326 | 172.0 |
| Notes | | | | | | | | |
| Other: No Weight Avail. ($000) | | 49,964 | | 5,441 | | 6,095 | 61,934 | 28.2 |
| Total Exports Incl. Other($000) | | 9,125,306 | | 852,400 | | 764,750 | 9,871,968 | 7.8 |

SOURCE: Bureau of Census, U.S. Department of Commerce. E = Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

| PRODUCER PRICE INDEXES 1982 = 100 | YEAR 1989 | YEAR 1990 | MAY 1991 | JUNE 1991 | JULY 1991 | AUGUST 1991 | Annual Rate Y-T-D 1991 | % Change from same Period Last Year |
|---|---|---|---|---|---|---|---|---|
| Pulp, Paper and Products except Building Grades | 132.4 | 132.9 | 129.9 | 129.0 | 128.8 | 128.7 | 130.5 | -1.9 |
| Pulp Paper & Products, ex. Building Grades & ex. Waste Paper * | 132.0 | 132.8 | 129.9 | 129.1 | 129.1 | 129.0 | 130.6 | -1.7 |
| Total Wood Pulp | 157.4 | 151.2 | 122.5 | 118.1 | 117.2 | 115.5 | 123.9 | -20.1 |
| Total Paper | 129.6 | 128.8 | 127.1 | 125.9 | 125.8 | 125.7 | 127.9 | -0.3 |
| Writing Paper, exc. Newsprint | 130.5 | 129.1 | 124.8 | 123.0 | 123.0 | 123.1 | 126.0 | -1.9 |
| Newsprint | 122.5 | 119.6 | 122.1 | 119.7 | 119.0 | 118.5 | 122.8 | 3.9 |
| Total Paperboard | 140.1 | 135.7 | 127.0 | 126.7 | 127.4 | 127.9 | 129.0 | -5.7 |
| Total Paper and Paperboard * | 132.9 | 131.0 | 127.1 | 126.2 | 126.3 | 126.4 | 128.2 | -2.1 |
| Converted Products | 131.7 | 135.1 | 135.2 | 134.9 | 134.7 | 134.7 | 135.5 | 0.4 |
| Waste Paper | 157.1 | 138.9 | 128.8 | 121.0 | 113.2 | 112.4 | 126.0 | -11.4 |
| All Commodities | 112.2 | 116.3 | 116.5 | 116.3 | 116.0 | 116.2 | 116.7 | 1.7 |
| Industrial Commodities | 111.6 | 115.8 | 116.1 | 116.0 | 116.0 | 116.4 | 116.5 | 2.5 |

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

PAPER AND ALLIED PRODUCTS INDUSTRY
SALES, EARNINGS AND BALANCE SHEET DATA
1984 - 1991
(Millions of Dollars)

| | Net Sales | Net Profit Before Taxes | Net Profit Before Taxes to Net Sales (%) | Taxes | Net Profit After Taxes | Net Profit After Taxes to Net Sales (%) | Stock-holders Equity | Return on Equity (%) | Long-term Debt | Total Assets |
|---|---|---|---|---|---|---|---|---|---|---|
| 1984 | 71,891 | 4,812 | 6.7 | 1,798 | 3,015 | 4.2 | 28,160 | 10.7 | 13,802 | 58,520 |
| 1985 C | 71,761 | 4,424 | 6.2 | 1,533 | 2,891 | 4.0 | 29,780 | 9.7 | 15,262 | 62,613 |
| 1985 R | 71,465 | 4,399 | 6.2 | 1,519 | 2,880 | 4.0 | 29,694 | 9.7 | 15,262 | 62,505 |
| 1986 C | 74,896 | 5,318 | 7.1 | 2,025 | 3,293 | 4.4 | 31,254 | 10.5 | 18,920 | 69,132 |
| 1986 R | 74,844 | 5,298 | 7.1 | 2,018 | 3,280 | 4.4 | 31,221 | 10.5 | 18,906 | 69,082 |
| 1987 C | 86,603 | 8,077 | 9.3 | 3,088 | 4,989 | 5.8 | 35,162 | 14.2 | 20,152 | 78,791 |
| 1987 R | 95,576 | 8,860 | 9.3 | 3,336 | 5,520 | 5.8 | 39,217 | 14.1 | 22,417 | 85,279 |
| 1988 C | 107,014 | 12,204 | 11.4 | 4,127 | 8,077 | 7.5 | 42,933 | 18.8 | 27,067 | 95,295 |
| 1988 R | 107,221 | 12,210 | 11.4 | 4,129 | 8,081 | 7.5 | 42,940 | 18.8 | 27,180 | 95,444 |
| 1989 C | 112,238 | 10,771 | 9.6 | 3,771 | 7,000 | 6.2 | 45,888 | 15.3 | 33,193 | 107,572 |
| 1989 R | | | | | | | | | | |
| First Quarter | 110,376 | 12,172 | 11.0 | 4,184 | 7,992 | 7.2 | 43,811 | 18.2 | 29,016 | 98,562 |
| Second Quarter | 115,448 | 14,412 | 12.5 | 4,344 | 8,068 | 7.0 | 44,954 | 17.9 | 31,248 | 102,895 |
| Third Quarter | 113,824 | 11,876 | 10.4 | 4,388 | 7,488 | 6.6 | 46,246 | 16.2 | 32,909 | 105,834 |
| Fourth Quarter | 114,644 | 7,000 | 6.1 | 2,360 | 4,640 | 4.0 | 45,642 | 10.2 | 34,543 | 109,038 |
| Total | 113,573 | 11,365 | 10.0 | 3,819 | 7,047 | 6.2 | 45,642 | 15.4 | 34,543 | 109,038 |
| 1990 C | 114,686 | 7,187 | 6.3 | 2,343 | 4,844 | 4.2 | 46,462 | 10.4 | 39,961 | 116,812 |
| 1990 R | | | | | | | | | | |
| First Quarter | 115,176 | 8,784 | 7.6 | 2,968 | 5,816 | 5.0 | 47,950 | 12.1 | 37,970 | 115,368 |
| Second Quarter | 116,072 | 9,268 | 8.0 | 2,868 | 6,400 | 5.5 | 44,977 | 14.2 | 38,777 | 111,721 |
| Third Quarter | 116,148 | 7,524 | 6.5 | 2,668 | 4,856 | 4.2 | 45,601 | 10.6 | 39,291 | 114,134 |
| Fourth Quarter | 114,696 | 3,368 | 2.9 | 908 | 2,456 | 2.1 | 45,951 | 5.3 | 40,720 | 117,335 |
| Total | 115,523 | 7,238 | 6.3 | 2,353 | 4,882 | 4.2 | 45,951 | 10.6 | 40,720 | 117,335 |
| 1991 C | | | | | | | | | | |
| First Quarter | 109,536 | 5,096 | 4.7 | 1,624 | 3,464 | 3.2 | 46,714 | 7.4 | 42,377 | 118,212 |
| Second Quarter | 111,448 | 4,760 | 4.3 | 1,596 | 3,168 | 2.8 | 46,398 | 6.8 | 42,809 | 118,204 |
| Total | 110,492 | 4,928 | 4.5 | 1,610 | 3,316 | 3.0 | 46,398 | 7.1 | 42,809 | 118,204 |

NOTE: Quarterly data are at annual rates. C=Consistent with the previous year's final total.
R=Revised to reflect changes in the number of companies classified to this industry.
SOURCE: Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations - Bureau of the Census, U.S. Department of Commerce.

PD3

reprographic departments, business form converters and exports. Some of the increase may reflect user anticipation of stronger demand.

Coated paper shipments trailed last year's total by 3.8% in the January-August 1991 period. On a seasonally adjusted basis, shipments ebbed from September 1990 to May 1991, but then rebounded. The June-August 1991 rate was 7.6% above that of the previous three-month period and 2.3% below their June-August 1990 rate.

Shipments of unbleached kraft papers were off 3.2% for the first eight months of 1991. When net imports and consumption of bags made from recovered papers are included, the total new supply was down by only 1.4%.

Total output of specialty packaging and special industrial papers is running close to year-ago levels. The reported individual grade totals for 1991 and 1990 are presently under review, and the data shown in the table on page 3 for 1990 and 1991 are not directly comparable with each other.

**Paperboard:** Paperboard production was 1.6% above its comparable eight month 1990 level, reflecting a 2.0% rise in containerboard combined with a 0.6% increase in boxboard. Production of paperboard for export was up 14.6%, accounting for 87% of the total gain in production.

Within the domestic market, production of linerboard for use in fibre boxes showed a year-to-year increase of 0.7%. This comparison has improved of late -- the rate of production in the July-August period was 5.4% above that of first-half 1991. Production of corrugating medium reported a 0.5% decline.

The 0.6% gain reported for total boxboard was the resultant of a 10.1% rise in folding boxboard, largely offset by weakness in the set-up and "other paperboard" grades. As the table on page 3 shows, production of folding boxboard for domestic use was 9.2% above its year-earlier total. The impact of the new unbleached kraft folding boxboard machine appears in both the domestic use component -- with a 24.5% rise -- and in production for export -- up 38.1%. Solid bleached and recycled folding boxboard also recorded strong increases.

The weakness in the non-packaging grades was concentrated in gypsum wallboard facing, which is largely dependent on housing construction. Production of tube, can and drum stock, which is included the "other boxboard" grades, was fairly close to its year-ago level.

## FIBROUS RAW MATERIALS

Production of chemical paper grade market pulp continued along its flat trend in August, with the January-August total 1.8% ahead of its year-ago rate. For six of these months, however, production

ran ahead of shipments, bringing inventories from 26 days of supply at the end of January to 30 days at the end of August.

The relative stability in total shipments continues to reflect rising export demand, compensating for weakness in the domestic market: export shipments gained 8.7%, those to the domestic market fell 8.8%. Shipments to Western Europe, Japan and the other Asian/African countries each increased by 11-12%, with the total accounting for 87% of all exports of these grades.

The domestic industry's use of wood pulp as a fibrous raw material appears to be affected by increases in recovered paper. In the January-July period, use of recovered paper was 2.7% over its comparable 1990 total, compared to a 0.9% increase in wood pulp.

**COMPARATIVE LABOR COMPENSATION AND PRODUCTIVITY TRENDS**

The U.S. paper industry's competitive position in world markets is influenced by several cost-related factors, including comparative levels of labor compensation and productivity. The U.S. Bureau of Labor Statistics (BLS) regularly compiles data on hourly compensation of paper industry production workers in several key nations. The BLS has recently made available the 1989 data, reported in both national currencies and U.S. dollars.

Hourly compensation of U.S. paper and allied product production workers increased at an average annual rate of 5.5% a year between 1979 and 1989, rising from $9.64 to $16.45. The rates of increase averaged 7.6% a year from 1979 to 1985 and 2.4% a year from 1985 to 1989.

Canada and Sweden, like the U.S., are both major exporters of pulp and paper products. Hourly compensation of Canadian paper industry production workers, measured in U.S. dollars, rose from 94% of the U.S. compensation level in 1985 to 110% of the U.S. level in 1988 and 117% of the U.S. level in 1989. The increase in relative compensation of Canadian workers reflected two factors: (1) compensation of Canadian paper industry production workers, measured in Canadian dollars, rose at an average annual rate of 4.3% a year from 1985 to 1989, and (2) the Canadian dollar strengthened against U.S. currency during this period, causing compensation of Canadian paper industry production workers to increase even faster on a U.S. dollar basis. Compensation of U.S. workers, measured in U.S. dollars, rose 2.4% a year.

Hourly compensation of Swedish paper industry production workers rose from 73% of the U.S. level in 1985 to 120% in 1988 and 122% in 1989. Measured in krona, hourly compensation of Swedish paper industry production workers advanced at an average rate of 8.4% a year from 1985 to 1989. However, because the krona appreciated relative to the dollar during most of that period, the U.S. dollar value of hourly compensation paid to Swedish paper industry production workers rose an average of 16.4% a year from 1985 to 1989.

The U.S. paper industry's hourly compensation rates are typically above those rates paid by Asian paper industries. For instance, compensation in Japan amounted to 87% of the U.S. level in 1989, up from 46% in 1985. Korean and Taiwanese paper industry production workers received compensation amounting to just 23% of the U.S. level in 1989. Paper industry production workers in the former West Germany and France earned hourly compensation that was about on par with U.S. levels in 1989 (see tables below).

**Relative U.S. Dollar Compensation of Paper Industry Production Workers**
(United States = 100)

| | 1979 | 1985 | 1988 | 1989 |
|---|---|---|---|---|
| U.S. | 100 | 100 | 100 | 100 |
| Canada | 100 | 94 | 110 | 117 |
| Sweden | 130 | 73 | 120 | 122 |
| Japan | 60 | 46 | 85 | 87 |
| Korea | 15 | 10 | 17 | 23 |
| Taiwan | 10 | 12 | 20 | 23 |
| France | 88 | 53 | 87 | 82 |
| Germany | 109 | 58 | 104 | 97 |
| U.K. | 62 | 45 | 72 | 68 |

Source: U.S. Bureau of Labor Statistics

Output per manhour and unit labor costs are also important measures of a country's competitiveness. Although the BLS does not compile such data for a cross section of countries at the detailed level of the paper industry, it does do so at the "all manufacturing" level. A detailed listing and discussion of these data through 1989 can be found in the April 1991 issue of the API Monthly Statistical Summary. Portions of the data are updated through 1990 in the following table.

Output per manhour in the U.S. manufacturing sector trended up 3.1% a year from 1979 to 1990. That was about average for the nations listed in the preceding text table, with the United Kingdom (4.4% a year) and Japan (4.1%) at the high end of the range and Canada (1.4%) at the low end of the range.

Unit labor costs, which are influenced by output per manhour and compensation, as well as exchange rates if international comparisons are to be made, are a useful summary measure of a nation's competitiveness. From 1979 to 1990, unit labor costs in the U.S. manufacturing sector increased at an average annual rate of 2.1% a year. That was the lowest rate of increase in dollar-denominated unit labor costs for any of the countries listed in the following tables.

**Output Per Manhour/Unit Labor Costs in Manufacturing**
(average annual % change)

| | Output Per Manhour | | | Unit Labor Costs in U.S. Dollars | | |
|---|---|---|---|---|---|---|
| | 1979-90 | 1989 | 1990 | 1979-90 | 1989 | 1990 |
| U.S. | 3.1% | 0.9% | 2.5% | 2.1% | 3.0% | 0.7% |
| Canada | 1.4 | 0.7 | 2.7 | 5.4 | 9.7 | 5.7 |
| Sweden | 2.0 | 0.3 | 0.5 | 3.6 | 3.4 | 18.4 |
| Norway | 2.4 | 3.7 | 2.3 | 4.5 | -5.2 | 14.4 |
| Japan | 4.1 | 5.2 | 3.7 | 4.1 | -6.4 | -3.5 |
| Korea | N.A. | N.A. | N.A. | 3.9 | 26.0 | -1.0 |
| Taiwan | N.A. | N.A. | N.A. | 8.0 | 13.3 | 2.4 |
| France | 3.2 | 4.8 | 1.1 | 2.9 | -7.2 | 20.5 |
| Germany | 2.0 | 4.3 | 3.4 | 4.5 | -6.4 | 19.1 |
| U.K. | 4.4 | 4.8 | 0.8 | 3.3 | -4.8 | 18.6 |

Source: U.S. Bureau of Labor Statistics
N.A. - Not Available

**Changes in Hourly Compensation of Paper Industry Production Workers**
(average annual % change)

| | In Dollars | | | In National Currency | | |
|---|---|---|---|---|---|---|
| | 1979-89 | 1979-85 | 1985-89 | 1979-89 | 1979-85 | 1985-89 |
| U.S. | 5.5% | 7.6% | 2.4% | 5.5% | 7.6% | 2.4% |
| Canada | 7.1 | 6.5 | 8.1 | 7.2 | 9.3 | 4.3 |
| Sweden | 4.8 | -2.2 | 16.4 | 9.2 | 9.8 | 8.4 |
| Japan | 9.4 | 3.0 | 19.8 | 4.5 | 4.5 | 4.5 |
| Korea | 10.4 | 0.2 | 27.7 | 14.1 | 10.5 | 19.7 |
| Taiwan | 14.6 | 10.4 | 21.2 | 11.2 | 12.2 | 9.6 |
| France | 4.8 | -1.2 | 14.4 | 9.1 | 11.9 | 5.1 |
| Germany | 4.3 | -3.0 | 16.4 | 4.6 | 4.9 | 4.1 |
| U.K. | 6.5 | 2.0 | 13.7 | 9.3 | 10.8 | 7.2 |

Source: U.S. Bureau of Labor Statistics

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 69, NO. 9
SEPTEMBER, 1991

PRODUCTION (000 TONS)

| PAPER GRADES | (P) AUGUST 1991 | (R) JULY 1991 | AUGUST 1990 | FIRST 8 MONTHS 1991 | FIRST 8 MONTHS 1990 | % CHANGE YR TO DATE 1991/1990 |
|---|---|---|---|---|---|---|
| Newsprint | 580 | 586 | 572 | 4,546 | 4,362 | 4.2 |
| Printing & Writing | 1,991 | 1,960 | 1,976 | 14,600 | 14,913 | -2.1 |
| Uncoated Groundwood (s) | 152 | 159 | 150 | 1,174 | 1,191 | -1.4 |
| Coated Groundwood (s) | 359 | 350 | 378 | 2,685 | 2,783 | -3.5 |
| Coated Free Sheet (s) | 297 | 290 | 304 | 2,124 | 2,215 | -4.1 |
| Total Coated Paper (s) | 656 | 640 | 682 | 4,809 | 4,998 | -3.8 |
| Uncoated Free Sheet Paper (s) | 1,057 | 1,044 | 1,012 | 7,637 | 7,692 | -0.7 |
| Thin Paper (s) | 17 | 17 | 19 | 130 | 153 | -15.2 |
| Cotton Fiber Paper (s) | 12 | 10 | 13 | 98 | 107 | -8.4 |
| Bleached Bristols (s) | 97 | 89 | 101 | 753 | 772 | -2.5 |
| Tissue Paper | 484 | 440 | 501 | 3,796 | 3,847 | -1.3 |
| Total Pkg & Other Paper | 385 | 352 | 389 | 3,021 | 3,050 | -0.9 |
| Unbl. Kraft Paper (s) | 188 | 186 | 198 | 1,551 | 1,602 | -3.2 |
| Bl. Kraft Paper (s) | 39 | 34 | 38 | 278 | 320 | -13.1 |
| Specialty Pkg. Paper | 54 | 47 | 51 | 407 | 364 | 11.6 |
| Special Industrial Paper (s) | 103 | 84 | 102 | 786 | 764 | 2.8 |
| TOTAL PAPER | 3,439 | 3,338 | 3,438 | 25,964 | 26,172 | -0.8 |
| PAPERBOARD GRADES | | | | | | |
| Unbleached Kraft Paperboard | 1,864 | 1,813 | 1,728 | 13,767 | 13,413 | 2.6 |
| Unbleached Kraft Linerboard | 1,721 | 1,687 | 1,630 | 12,793 | 12,598 | 1.5 |
| Other Unbl. Kraft Paperboard | 143 | 126 | 98 | 974 | 815 | 19.5 |
| Semichemical Paperboard | 477 | 481 | 478 | 3,780 | 3,804 | -0.6 |
| Bleached Paperboard | 389 | 394 | 364 | 3,078 | 2,979 | 3.3 |
| Recycled Paperboard | 792 | 731 | 762 | 5,980 | 5,996 | -0.3 |
| TOTAL PAPERBOARD | 3,522 | 3,419 | 3,331 | 26,605 | 26,192 | 1.6 |
| TOTAL PAPER AND PAPERBOARD | 6,961 | 6,757 | 6,769 | 52,569 | 52,364 | 0.4 |

| WOOD PULP (ALL GRADES) | JULY 1991 | JUNE 1991 | JULY 1990 | FIRST 7 MONTHS 1991 | FIRST 7 MONTHS 1990 | % CHANGE 1991/1990 |
|---|---|---|---|---|---|---|
| Dissolving & Special Alpha | 130 | 124 | 107 | 804 | 757 | 6.1 |
| Bleached Sulfite ) | 155 | 124 | 130 | 933 | 924 | 1.0 |
| Unbleached Sulfite ) | | | | | | |
| Bleached & Semi-Bl. Sulfate | 2,499 | 2,306 | 2,424 | 16,576 | 16,015 | 3.5 |
| Unbleached Sulfate | 1,955 | 1,792 | 1,902 | 12,760 | 12,758 | 0.0 |
| Semichemical | 347 | 331 | 364 | 2,397 | 2,495 | -3.9 |
| Groundwood & Thermomechanical | 545 | 520 | 546 | 3,761 | 3,640 | 3.3 |
| TOTAL PULP DIVISION DATA | 5,631 | 5,197 | 5,474 | 37,230 | 36,589 | 1.8 |

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

| INDUSTRY DATA September 30, 1991 | 1989 | 1990 | 1991 | 1991 R | 1991 P | AN RATE Y-T-D 91 | % CH/ SAME PD 90 |
|---|---|---|---|---|---|---|---|
| PAPER AND PAPERBOARD -- Tons (000) | | | JUNE | JULY | AUGUST | | |
| Total Production (API)....: excluding :.... | 76,785 | 78,782 | 6,465 | 6,757 | 6,961 | 78,854 | 0.4 |
| Total Seasonally Adjusted....: construction :.... | | | 6,560 | 6,788 | 6,745 | 78,640 | 0.4 |
| Imports (including Products)....: and wet :....E.... | 12,910 | 13,006 | 967 | 951 | 975 | 12,000 | -9.2 |
| Exports (including Products)....: machine :....E.... | 6,263 | 6,787 | 733 | 660 | 700 | 8,228 | 20.3 |
| Apparent Consumption....e....: grades :.... | 83,432 | 85,002 | 6,794 | 7,080 | 7,020 | 82,412 | -2.7 |
| Paper Production % Tonnage Capacity.... | 93.0 | 93.2 | 88.4 | 89.1 | 91.2 | 89.3 | - |
| Paperboard Production % Tonnage Capacity.... | 94.0 | 94.2 | 92.7 | 92.3 | 95.0 | 92.6 | - |
| PAPER, PAPERBOARD AND PRODUCTS | | | MAY | JUNE | JULY | | |
| Imports....:Including Construction and :.... | 13,100 | 13,147 | 1,017 | 976 | 960 | 12,131 | -9.2 |
| Exports....: WMC Grades (excl. HPB) :.... | 6,300 | 6,796 | 700 | 735 | 662 | 8,226 | 21.1 |
| MARKET WOOD PULP PRODUCTION - Tons (000).... | 8,664 | 8,798 | 710 | 745 | 793 | 9,076 | 3.5 |
| TOTAL WOOD PULP PRODUCTION - Tons (000)....I.... | 61,998 | 63,068 | 5,188 | 5,197 | 5,631 | 63,826 | 1.8 |
| WOOD PULP IMPORTS - TONS (000).... | 5,005 | 4,893 | 382 | 414 | 422 | 4,948 | -2.0 |
| WOOD PULP EXPORTS - TONS (000).... | 5,766 | 5,905 | 576 | 573 | 497 | 6,402 | 9.2 |
| RAW MATERIALS CONSUMPTION - Tons (000) | | | | | | | |
| PAPER AND BOARD MILLS....: excluding :.... | | | MAY | JUNE | JULY | | |
| Wood Pulp....: consumption for :.... | 60,252 | 61,032 | 4,988 | 4,982 | 5,363 | 61,420 | 0.9 |
| Waste Paper....: construction & :.... | 19,490 | 21,040 | 1,763 | 1,799 | 1,801 | 21,287 | 2.7 |
| TOTAL....: WMB grades :.... | 79,742 | 82,072 | 6,751 | 6,781 | 7,165 | 82,707 | 1.4 |
| PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn | 98,414 | 99,109 | 8,108 | 7,992 | 8,239 | 98,892 | -0.3 |
| EMPLOYMENT (000) | | | JUNE | JULY | AUGUST | | |
| Paper and Allied Products....Total.... | 697.4 | 699.3 | 694.3 | 693.5 | 697.4 | 691.3 | -1.2 |
| Pulp, Paper and Board Mills....Total....A.... | 245.6 | 245.2 | 244.8 | 245.0 | 244.4 | 242.7 | -1.3 |
| AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($) | | | JUNE | JULY | AUGUST | | |
| Paper and Allied Products.... | 11.96 | 12.30 | 12.66 | 12.78 | 12.73 | 12.62 | 3.3 |
| Pulp, Paper Mills....A.... | 14.72 | 15.18 | 15.58 | 15.82 | 15.81 | 15.52 | 3.2 |
| Paperboard Mills....E.... | 14.76 | 15.25 | 15.49 | 15.62 | 15.75 | 15.57 | 3.3 |
| CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS | | | 1990 Q4 | 1991 Q1 | 1991 Q2 | | |
| (Rept. by US Dept. of Com., Ann. Rates, Bill.$)* | 15.58 | 16.53 R | 14.06 | 13.20 | 11.38 | 11.93 Y | -27.8 |
| INDEX OF OUTPUT PER MAN-HOUR (1982=100) | | | JUNE | JULY | AUGUST | | |
| :IN PULP, PAPER :....Production Workers.... | 125.9 | 128.8 | 129.2 | 134.2 | 134.4 | 130.7 | 1.8 |
| :AND BOARD MILLS:....All Employees.... | 126.5 | 129.3 | 130.4 | 135.4 | 135.4 | 131.6 | 2.2 |
| PAPER AND ALLIED PRODUCTS (Million $) | | | JUNE | JULY | AUGUST | | |
| Industry Shipments (Dept. of Commerce)*.... | 130,501 | 131,080 | 10,284 | 10,251 | 10,257 | 121,682 | -7.1 |
| Pulp, Paper and Paperboard*.... | 57,700 | 56,356 | 4,430 | 4,357 | 4,324 | 52,226 | -6.9 |
| Inventories (End of Period) - Total Industry*.... | 12,571 | 12,980 | 13,332 | 13,247 | 13,057 | 13,057 | 2.4 |
| Pulp, Paper and Paperboard*.... | 4,980 | 5,305 | 5,560 | 5,537 | 5,511 | 5,511 | 6.0 |
| PAPER AND ALLIED PRODUCTS COMPANIES (Million $) | | | 1990 Q4 | 1991 Q1 | 1991 Q2 | | |
| Sales (Corporations Only).... | 113,573 | 115,523 | 28,674 | 27,384 | 27,862 | 110,492 | -4.4 |
| Earnings (Corporations Only).... | 7,047 | 4,882 | 614 | 868 | 792 | 3,320 | -45.6 |
| Depreciation (Corporations Only).... | 5,010 | 5,578 | 1,481 | 1,441 | 1,420 | 5,722 | 5.6 |
| Net Worth (Corporations Only).... | 45,842 | 45,951 | 45,951 | 46,714 | 46,398 | 46,398 | 3.2 |
| PRICE INDEXES (Bureau of Labor Stats)1982=100 | | | JUNE | JULY | AUGUST | | |
| Pulp, Paper & Products, ex. Building Grades.... | 132.4 | 132.9 | 129.0 | 128.8 | 128.7 | 130.5 | -1.9 |
| Wood Pulp.... | 157.4 | 151.2 | 118.1 | 117.2 | 115.5 | 123.9 | -20.1 |
| Waste Paper.... | 157.1 | 138.9 | 121.0 | 113.2 | 112.4 | 126.0 | -11.4 |
| Paper.... | 129.6 | 128.8 | 125.9 | 125.8 | 125.7 | 127.9 | -0.3 |
| Paperboard.... | 140.1 | 135.7 | 126.7 | 127.4 | 127.9 | 129.0 | -5.7 |
| PAPER DEMAND (INDEXED: 1987=100) | | | JUNE | JULY | AUGUST | | |
| Total Paper Production *.... | 103.7 | 106.7 | 105.6 | 111.0 | 108.3 | 105.6 | -0.8 |
| Paper New Supply *.... | 102.4 | 104.6 | 98.8 | 103.0 | 101.3 | 100.3 | -4.4 |
| Demand Indicators - (Weighted Average) *.... | 107.8 | 110.1 | 109.4 | 110.2 | 110.5 | 109.4 | -0.6 |
| Production of Nondurable Goods....*....(21.2%).... | 106.4 | 107.8 | 107.5 | 108.2 | 108.9 | 106.9 | -0.8 |
| Disposable Income....*....(23.9%).... | 107.2 | 108.1 | 108.0 | 107.9 | 108.1 | 107.4 | 1.6 |
| Total Printing and Publishing....*....(54.9%).... | 108.6 | 111.9 | 110.7 | 112.0 | 112.1 | 111.2 | -0.4 |
| PAPERBOARD DEMAND (INDEXED: 1987=100) | | | JUNE | JULY | AUGUST | | |
| Total Paperboard Production *.... | 103.0 | 105.4 | 106.0 | 108.1 | 109.4 | 105.9 | 1.8 |
| Production for Domestic Use .... | 103.2 | 104.6 | 103.3 | 105.4 | 106.3 | 103.4 | 0.2 |
| Demand Indicators - (Weighted Average) *.... | 107.2 | 107.9 | 107.4 | 107.8 | 108.2 | 106.3 | -1.6 |
| Production of Consumer Goods....*....(62.06%).... | 106.6 | 107.3 | 107.9 | 107.9 | 108.4 | 106.4 | -0.8 |
| Production of Equipment....*....( 5.75%).... | 112.3 | 115.5 | 112.9 | 112.9 | 112.3 | 112.8 | -2.1 |
| Production of Materials....*....(32.19%).... | 107.4 | 107.8 | 105.4 | 106.7 | 107.2 | 104.8 | -2.9 |
| MARKET DATA | | | MAY | JUNE | JULY | | |
| Newsprint Consumption by Publishers - Tons (000).... | 13,493 | 13,368 | 1,052 | 1,011 | 972 | 12,120 | -8.7 |
| Newspaper Pub. and Printing Empl. Total(000).... | 472 | 476 | 463 | 463 | 460 | 465 | -2.3 |
| Magazine Advertising Pages (PIB, Inc.) | 181,995 | 176,121 R | 13,148 | 12,644 | 9,539 | 147,529 | -12.4 |
| Wholesalers Sales and Inventories (Million $) | | | MAY | JUNE | JULY | | |
| Total Paper & Pap. Prdcts.,ex Wallpaper..Sales.... | 50,015 | 51,454 | 3,996 | 3,905 | 4,218 | 48,621 | -4.0 |
| Inventories (End of Period).... | 4,132 | 4,300 | 3,954 | 3,890 | 3,805 | 3,805 | -8.6 |
| FIBRE BOX DATA (Fibre Box Association) | | | JUNE | JULY | AUGUST | | |
| Fibre Box Shipments (Million square feet).... | 313,400 | 318,102 | 25,722 | 27,845 | 28,297 | 319,313 | -1.0 |
| Container'bd Inventory at Mill & Plant (000 Tons).... | 2,589 | 2,765 | 2,637 | 2,706 | 2,604 | 2,604 | -0.6 |
| RETAIL TRADE (Billion $) | | | | | | | |
| Total Retail Sales *.... | 1,742 | 1,808 | 152.6 | 153.4 | 152.3 | 1,819 | 0.9 |
| Nondurable Goods Stores Sales *.... | 1,089 | 1,153 | 98.4 | 99.2 | 99.2 | 1,178 | 3.2 |
| GENERAL ECONOMIC DATA | | | JUNE | JULY | AUGUST | | |
| TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*.... | 108.1 | 109.2 | 107.3 | 108.0 | 108.2 | 106.6 | -2.4 |
| PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100).... | 112.2 | 116.3 | 116.3 | 116.0 | 116.2 | 116.7 | 1.7 |
| CONSUMER PRICES (ALL ITEMS--URBAN CON.) (1982-4=100).... | 124.0 | 130.7 | 136.0 | 136.2 | 136.6 | 135.5 | 4.8 |
| GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions) | | | 1990 Q4 | 1991 Q1 | 1991 Q2 | | |
| G.N.P. or Expenditure - Current $.... | 5,201 | 5,465 | 5,527 | 5,558 | 5,616 | 5,587 | 3.3 |
| G.N.P. or Expenditure - 1982 $.... | 4,118 | 4,157 | 4,153 | 4,124 | 4,123 | 4,124 | -0.7 |
| PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA | 671 | 681 | | | | 655 | |

I - Wood Pulp Prod exc def., explo & scr. R - Revised E - Last month estimated by API A - Est. by API Y - 1st quarter est. by Dept. of Commerce * Seasonally Adjusted